

AMENDMENTS TO THE CLAIMS

1. (withdrawn) A cement composition comprising cement and low reactivity particles, wherein the particles have a size of about 40 mesh to about 250 mesh.
2. (withdrawn) The composition of claim 1, wherein the composition fractures in a non-linear manner when set.
3. (withdrawn) The composition of claim 1, wherein the cement is API Class A cement, API Class B cement, API Class C cement, API Class G cement, or API Class H cement.
4. (withdrawn) The composition of claim 1, wherein the cement is ASTM class I cement, ASTM class II cement, ASTM class III cement, ASTM class IV cement, or ASTM class V cement.
5. (withdrawn) The composition of claim 1, wherein the particles are silica sand.
6. (withdrawn) The composition of claim 1, wherein the particles are aluminum silicate, gilsonite, ground coal, adamantane, or fullerene.
7. (withdrawn) The composition of claim 1, wherein the particles are present at a concentration of about 30 weight percent to about 100 weight percent, based on the weight of the cement.
8. (withdrawn) The composition of claim 1, further comprising water.
9. (withdrawn) The composition of claim 8, wherein the water is present at a concentration of about 30 weight percent to about 150 weight percent, based on the weight of the cement.
10. (withdrawn) The composition of claim 1, further comprising sand.
11. (withdrawn) The composition of claim 1, further comprising gravel.

12. (withdrawn) The composition of claim 1, further comprising a dispersant, a salt, a set retarder, a gas control agent, a free fluid control agent, a biopolymer, a weighting material, a fluid loss agent, a bonding agent, an extender, a reinforcing agent, or a gel.
13. (withdrawn) The composition of claim 12, wherein the weighting agent is hematite.
14. (withdrawn) The composition of claim 12, wherein the fluid loss agent is a hydroxyethylcellulose and AMPS copolymer.
15. (withdrawn) The composition of claim 12, wherein the bonding agent is polyvinyl alcohol.
16. (withdrawn) The composition of claim 12, wherein the extender is sodium montmorillonite, sodium metasilicate, or sodium silicate.
17. (withdrawn) The composition of claim 12, wherein the reinforcing agent is wollastonite, pyrophyllite, sepiolite, carbon whiskers, polypropylene whiskers, or nylon whiskers.
18. (withdrawn) A cement composition comprising:

cement; and

silica sand having a size of about 40 mesh to about 250 mesh, wherein the silica sand is present at a concentration of about 30 weight percent to about 100 weight percent, based on the weight of the cement.
19. (withdrawn) The composition of claim 18, further comprising water.
20. (withdrawn) The composition of claim 18, further comprising water at a concentration of about 30 weight percent to about 150 weight percent, based on the weight of the cement.
21. (currently amended) A method of cementing an oil or gas well, the method comprising:

providing a cement composition comprising water, cement, and low reactivity particles,
wherein the particles have a size of about 40 to about 250 mesh;

pumping the composition into the well; and

allowing the composition to set;

wherein the composition fractures in a non-linear manner when set.

22. (cancelled)

23. (original) The method of claim 21, wherein the water is present at a concentration of about 30 weight percent to about 150 weight percent, based on the weight of the cement.

24. (currently amended) The method of claim 21, wherein the cement is is selected from the group consisting of API Class A cement, API Class B cement, API Class C cement, API Class G cement, ~~or~~ and API Class H cement.

25. (currently amended) The method of claim 21, wherein the cement is is selected from the group consisting of ASTM class I cement, ASTM class II cement, ASTM class III cement, ASTM class IV cement, ~~or~~ and ASTM class V cement.

26. (original) The method of claim 21, wherein the particles are silica sand.

27. (currently amended) The method of claim 21, wherein the particles ~~are~~ are selected from the group consisting of aluminum silicate, gilsonite, ground coal, adamantane, ~~or~~ and fullerene.

28. (original) The method of claim 21, wherein the particles are present at a concentration of about 30 weight percent to about 100 weight percent, based on the weight of the cement.

29. (original) The method of claim 21, wherein the composition further comprises sand.

30. (original) The method of claim 21, wherein the composition further comprises gravel.

31. (withdrawn) A method of preparing a cement structure, the method comprising:
- providing a cement composition comprising water, cement, and low reactivity particles, wherein the particles have a size of about 40 mesh to about 250 mesh;
- shaping the composition into a structure; and
- allowing the structure to set.
32. (withdrawn) The method of claim 31, wherein the composition fractures in a non-linear manner when set.
33. (withdrawn) The method of claim 31, wherein the water is present at a concentration of about 30 weight percent to about 150 weight percent, based on the weight of the cement.
34. (withdrawn) The method of claim 31, wherein the cement is API Class A cement, API Class B cement, API Class C cement, API Class G cement, or API Class H cement.
35. (withdrawn) The method of claim 31, wherein the cement is ASTM class I cement, ASTM class II cement, ASTM class III cement, ASTM class IV cement, or ASTM class V cement.
36. (withdrawn) The method of claim 31, wherein the particles are silica sand.
37. (withdrawn) The method of claim 31, wherein the particles are aluminum silicate, gilsonite, ground coal, adamantane, or fullerene.
38. (withdrawn) The method of claim 31, wherein the particles are present at a concentration of about 30 weight percent to about 100 weight percent, based on the weight of the cement.
39. (withdrawn) The method of claim 31, wherein the composition further comprises sand.
40. (withdrawn) The method of claim 31, wherein the composition further comprises gravel.